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JNANA BHARATHI
BANGALORE - 560 056

BUB/CTE/2014-15

Date: 25-01-2015

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements and asphalting to roads from Vidyaranaypura last Bus Stop to GKVK Double road Via HMT 6th and 7th Block roads in Ward No 09}in Vidyaranypaura sub division}.

Ref.: Letter No. Testing/BUB/2014-15, dated 24-01-2015

Name of the Agency/Contractor* : Mr. C.Shivaraj, Contractor,BBMP, Bangalore.

Report required for* : Assistant Executive Engineer,
Vidyaranypaura Sub-Division, BBMP, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision-2001
53	100.00	100
45	96.30	95-100
26.5	---	-
22.4	74.50	60-80
11.2	53.40	40-60
4.750	33.80	25-40
2.360	17.00	15-30
0.600	18.00	8--22
0.075	2.40	0--8

*As Furnished by Client.

The Results relate only to the items tested.

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JNANA BHARATHI
BANGALORE - 560 056

BUB/CTE/2014-15

Date: 29-01-2015

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements and asphalting to roads from Vidyaranaypura last Bus Stop to GKVK Double road Via HMT 6th and 7th Block roads in Ward No 09}in Vidyaranypaura sub division}.

Ref.: Letter No. Testing/BUB/2014-15, dated 28-01-2015

Name of the Agency/Contractor* : Mr. C.Shivaraj, Contractor,BBMP, Bangalore.

Report required for* : Assistant Executive Engineer,
Vidyaranypaura Sub-Division, BBMP, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete(40mm thick).**

1.The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.16 %** 2.**Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-15 of MORTH Specfications-2001 BC (Grading – 2)
19.0	100	100
13.2	90.10	79-100
9.5	75.60	70-88
4.75	63.00	53-71
2.36	53.20	42-58
1.18	45.60	34-48
0.600	35.00	26-38
0.300	25.70	18-28
0.150	16.20	12-20
0.075	6.30	4-10

*As Furnished by Client.

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AE-9

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BUB/CTE/2014-15/

Date: 25-01-2015

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements and Asphalting to Roads from Vidyaranyapura Last Bus Stop to GKVK Double Road via HMT 6th and 7th Block Roads in Ward No.09}

Ref.: Letter No. Testing/BUB/2014-15/ dated 24-01-2015

Sample supplied to lab by: Sri.C.Shivaraj, Contractor, Bangalore.

Report required for: Assistant Executive Engineer, Vidyaranyapura Sub-Division. BBMP, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision-2001
53.00	100.00	100
45.00	95.10	95-100
26.50	---	-
22.40	70.00	60-80
11.20	41.50	40-60
4.75	32.00	25-40
2.36	21.60	15-30
0.600	18.00	8-22
0.075	4.60	0-8

TABLE 1 2 :

SL No	Test conducted	Sample No	Results	Requirements as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2007)
1	Flakiness & Elongation Index	01	22.30%	Not more than 30 %
2	Impact Value	----,,----	23.60%	Not more then 24.00 % for BC Not more then 27.00 % for DBM Not more then 30.00 % for BM/WMM

*As Furnished by Client

The Results relate only to the items tested.

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25/1/2015

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BUB/CTE/2014-15/

Date: 29-01-2015

TEST REPORT ON BITUMINOUS MIXES
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: Testing of Bitumen Premix Sample (Semi Dense Bituminous Concrete-SDBC).
{Project*: Improvements and Asphalting to Roads from Vidyaranyapura Last Bus Stop to GKVK Double Road via HMT 6th and 7th Block Roads in Ward No.09}

Ref.: Letter No. Testing/BUB/2014-15/ dated 28-01-2015

Sample supplied to lab by: Sri.C.Shivaraj, Contractor, Bangalore.

Report required for: Assistant Executive Engineer,
Vidyaranyapura Sub-Division.
BBMP, Bangalore.

TEST RESULTS:

5. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.10%**
6. **Gradation Test** :

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-15 of MORTH Specifications-2001 (Grading – 2)
13.2	**100**	100
9.5	**96.30**	90—100
4.75	**42.50**	35—51
2.36	**31.00**	24—39
1.18	**21.70**	15—30
0.3	**15.80**	09—19
0.075	**4.20**	03—08

*As Furnished by Client

The Results relate only to the items tested.

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29/01/2015

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Date: 29-01-2015

TABLE 12 :

SL No	Test conducted	Sample No	Results	**Requirements** as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2007)
1	Flakiness & Elongation Index	01	**23.00%**	Not more than 30 %
2	Impact Value	----,,----	**23.10 %**	Not more then 24.00 % for BC Not more then 27.00 % for DBM Not more then 30.00 % for BM/WMM
3	Water absorption	----,,----	**0.30%**	Not more than 1.0 %
4	Stripping test. (Coating and stripping of Bitumen aggregate mixtures)	----,,----	**98.00 %**	Minimum retained coating 95.0 %

*As Furnished by Client

The Results relate only to the items tested.

29/01/2015

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